

REMARKS

Claims 1-8, as amended, remain herein.

Applicants thank the Examiner for acknowledgement of Applicants' claim for priority, and consideration of Applicants' Information Disclosure Statement as evidenced by the signed and returned Form PTO-1449.

Claims 1-8 were rejected under 35 U.S.C. § 103(a) over Shafer in view of Yu et al. ("Yu").

The Office Action cites Shafer as teaching a coil embedded in a magnetic body with a fitted connection formed by simple insertion of pre-molded ferrite. In contrast, Applicants' amended claims 1 and 8 recite a magnetic material having a molded connection with a coil embedded in curable magnetic material. Shafer does not teach or suggest a molded connection, let alone a connection comprising a curable magnetic material.

What is lacking from Shafer is not supplied by Yu, which has been cited only for its teachings of a radiator element on top of a coil structure. Yu does not describe a connection between an underlying coil and magnetic material, and therefore provides no suggestion or motivation to modify Shafer to provide a molded connection.

The molded connection of claims 1 and 8 provides several advantages over the fixed connection of the references, and is much more than a mere design alternative. The tighter fit of the molded connection between the coil and the magnetic material improves the overall performance of the invention of claims 1 and 8, including higher heat dissipation through the increased thermal conductivity, as well as a smaller size due to the high magnetic flux density. Neither Shafer nor Yu discloses any apparent need for size reduction or increased thermal conductivity, and therefore would not motivate one of skill either to combine any portions of those references or to modify the references to provide a molded connection.

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Accordingly, all of claims 1-8 are patentably distinct over Shafer and Yu. Withdrawal of the rejection of claims 1-8 and allowance of the same are therefore requested.

The application is now in condition for allowance and a notice to that effect is respectfully requested. The Commissioner is hereby authorized to charge/credit any fee deficiencies or overpayments to Deposit Account No. 19-4293 (Order No. 28951.2162).

If a telephone conference would be of value, the Examiner is requested to call Applicants' undersigned attorney at the number listed below.

Respectfully submitted,

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